



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **03159409 A**(43) Date of publication of application: **09.07.91**

(51) Int. Cl.

H03F 3/217**H03F 1/30****H03G 3/02**(21) Application number: **01298957**(22) Date of filing: **17.11.89**(71) Applicant: **FUJITSU TEN LTD**(72) Inventor:
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KAMIMURA MASATSUGU**(54) COMPENSATION CIRCUIT FOR POWER SUPPLY
FLUCTUATION OF SWITCHING AMPLIFIER**that it becomes small as the output level of the volume
51 increases.

(57) Abstract:

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PURPOSE: To remove influence by reflecting power fluctuation on the input (PWM signal) of a switching amplifier.

CONSTITUTION: A PCM/PWM converter 10 is provided with a PWM conversion part 11 converting the output (PCM signal) of a volume 51 into the PWM signal, a correction factor calculation part 12 calculating the correction factor α of a pulse width from a fluctuated quantity with a power source V_{cc} detected in a power fluctuation detection circuit 30, a weighting calculation part 13 calculating a weighting coefficient β from the coefficient of the volume 51 detected in a volume position detection circuit 40 and a synthesis part 14 correcting the pulse width of the PWM signal obtained in the PWM conversion part 11 by using the correction factor α and the weighting coefficient β . The correction factor α of power fluctuation is proportional to $V_{cc}/V_{cc'}$ if V_{cc} is set to be a maximum value and $V_{cc'}$ to be a present value. On the other hand, the weighting coefficient β has a characteristic

